



DC INVERTER AIR TO WATER HEAT PUMP



Extended Compressor Life

Intelligent capacity control reduces switch-on cycles, extending the life of the compressor 20 percent



Upgraded Silent Work Mode

Silent fan blades, anti-vibration details and special black noise insulation for minimal noise



Premium Modern Design

Smart, uniquely modern monoblock design that fits perfectly with the exterior of any house



Highest Energy Efficiency

High quality components and advanced technologies help the heat pump reach A+++ energy efficiency

Heating for 5 times less cost



Pioneer air to water heat pump can deliver around 5 times more thermal energy than the electricity it uses by **efficiently collecting any ambient heat** and transferring it directly to your home.

For all heating needs. Plus cooling



Pioneer air to water heat pump can provide efficient **underfloor or radiator heating and cooling** and the system can also deliver **hot water** for daily use.

A MODERN HEAT PUMP INSIDE AND OUT



Economic and powerful

Powerful and longlasting

- Nordic winter ready, works at -25~43 °C
- High energy efficiency (A+++)
- 5 kW of heat from 1 kW of electricity
- Revolutionary compressor with 20% extended life

High quality evaporator

Inorganic coated evaporator in the heat pump can effectively prevent frost building up inside the system, which helps the heat pump reduce the energy waste for defrosting by 10%



Nice and simple

User-friendly touchscreen interface

Elegantly designed and well readable heat pump operation panel provides a user friendly experience along with functions like heating curves and dual temperature control.

Smart control via WiFi

WiFi function is integrated with the display, so you can control and monitor the heat pump with a smartphone app anytime and any place.



Smart and effective

Easy installation and maintenance

- Fits with existing and new heating system
- Monoblock design with all necessary components inside
- Easy disassembly and assembly
- 10 minutes to replace the PCB

Full DC inverter

All moving components inside, including compressor, water pump and fan motor, are DC inverter type, that enhance the performance of the system, as well as balance the unit output and consumption.



Silent and safe

Low noise components

- Low noise and high quality fan blade
- DC inverter fan motor with rubber rotors
- Special anti-vibration fan motor supporter
- Compressor noise reduction chamber
- Black noise insulation foam inside casing

Safety guaranteed

Spark-free electric components inside the Pioneer air to water heat pump guarantee the safety of the system throughout its long lasting lifetime.

TECHNICAL DETAILS



MODEL NO.			PIAWM-06V1FGP	PIAWM-09V1FGP	PIAWM-12V1FGP
IP rating		IPXX	IPX4		
Power supply - Outdoor unit	Outdoor unit	V / Hz / Ph	230V/50Hz/1Ph	230V/50Hz/1Ph	230V/50Hz/1Ph
	Fuse outdoor unit	A	1p/ A/C	1p/ A/C	1p/ A/C
Min/max heating capacity (1)		kW	3.3~7.2	5.0~9.7	5.9~11.9
El. heating power input min/max (1)		KW	0.7~1.6	1.0~2.4	1.3~2.9
C.O.P min/max (1)		W/W	4.26~ 4.87	4.01~4.57	4.05~4.67
Min/max heating capacity (2)		kW	3.1~6.9	4.2~8.9	6~11.5
El. heating power input min/max (2)		KW	0.9~1.9	1.3~2.9	1.6~3.6
C.O.P min/max (2)		W/W	3.41~3.78	3.03~3.4	3.19~3.66
SCOP - Average climate, low temperature		W	4.66	4.62	4.57
Energy class			A+++		
Min/max cooling capacity (3)		kW	3.1~7.1	4.2~9.1	5.1~12.2
El. cooling power input min/max (3)		KW	0.82~1.9	1.2~2.9	1.34~3.4
E.E.R. min/max (3)		W/W	3.32~4.25	3.28~4.24	3.33~4.33
Min/max cooling capacity (4)		kW	1.8~4.8	3.1~7.9	4.2~8.9
El. cooling power input min/max (4)		KW	0.66~2.54	1.1~3.2	1.6~3.1
E.E.R. min/max (4)		W/W	2.54~2.84	2.38~2.83	2.61~3.22
Ambient temperature range	heating	°C	-25~43		
	cooling	°C	7~43		
Outlet water temperature range		°C	7~55		
Sound power level	55 °C	dB (A)	64	67	68
	35 °C	dB (A)	50	56	56
Fan	Yes	pcs	1		
	Airflow	m ³ /h	2500	3280	3280
	Rated power	W	60	62	62
	Blade diameter	mm	Ø455	Ø550	Ø550
Plate heat exchanger	Water press. drop	kPa	22	25	26
	Piping connection	size	1" Inner gorve		
Refrigerant	type	/	R32		
	charge	kg	0.75	1.15	1.3
Compressor	type	/	Twin Rotary		
Minimum water flow		m ³ /h	0.5	0.8	1.03
Nominal water flow		m ³ /h	1.0	1.6	2.06
Hydraulic connections		size	1" Inner gorve		
Net Dimensions (LxDxH)	Outdoor unit	mm	1015x380x700	1175x380x845	1175x380x845
Brutto Dimensions (LxDxH)	Outdoor unit	mm	1080x470x865	1245x480x1020	1245x480x1020
Net weight	Outdoor unit	kg	70	79	82
Brutto weight	Outdoor unit	kg	81	90	93
WiFi			Yes		
Communication cable		m	10		

1) Heating condition: water inlet/outlet temperature: 30 °C/35°C, Ambient temperature: DB 7 °C /WB 6 °C | 2) Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7 °C /WB 6 °C
 3) Cooling condition: water inlet/outlet temperature: 23 °C/18°C, Ambient temperature: DB 35 °C /WB 24 °C | 4) Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB 35 °C /WB 24 °C